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Galien, Benton Harbor, Edwardsburg, Mich. Mineral Springs, Tamarack, Millers, Dune Park, Michigan City, Mishawaka, North Liberty, Lakeville, etc.

*HYDRASTIS* Ellis, Linn., Syst., ed. 10, p. 1088, (1759) May.

*Warnera* Miller Gardeners' Dict., (1759) June (1763) Abr. Gard. Dict., *Warneria* Miller, Abr. Gard. Dict., (1763).

***Hydrastis canadensis*** Ellis, l. c.

*Warnera canadensis* Miller Gard. Dict., (1768).

Lake Maxinkuckee (H. W. Vlarke), Nos. 523, 468, 823, 402, 608, 1892, 2553, 2531, 6060, 11041, N. of Notre Dame. Reported by Kaczmarek from south of Laporte. Found also in Studebaker's woods, S. of So. Bend, but very scarce.

(To be continued.)

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## MIGRATION OF OUR BIRDS IN THE AUTUMN OF 1913.

BY BROTHER ALPHONSUS, C. S. C.

The autumn migration of our birds began on August 3, with the departure of the Yellow Warbler. The Orchard Oriole was last recorded on July 22, but this can not have been approximately the time of the bird's migration; for in 1912 the last record was nearly a month later—on August 20. Another species that was observed for the last time on July 15 was the Bobolink, which is the latest record I have ever made for this species. The last week in August marked the arrival of the first migrants—notably warblers—from the north. The total number of migrants observed this autumn was considerably larger than any previous records for the same season. The writer's own diligence and good fortune may account for this notable increase.

In September the arrival of migrants from the north continued throughout the month, the total number being 20 species. The very early arrival of the Snowbird was unprecedented, for last autumn this species was first observed on Sept. 28. The Kingbird's date of migration was the latest I have ever recorded—no doubt due to the very warm weather in the early part of September. The Crested Flycatcher migrated 5 days earlier than last autumn. The last record for the Chipping Sparrow in 1912 was

on Sept. 6, or 63 days earlier than the date of migration in 1913. This year the species was observed almost daily throughout September, but there was only one record for October—on the 14th—with an absence of 17 days. But the most striking occurrence of the autumn migration of 1913 was the presence of the Red-headed Woodpecker throughout the season and into winter.

Nearly every species was recorded later in the autumn of 1913 than in that of 1912. Here are some of last year's dates of migration and the difference in days from this year's dates:: Brown Thrasher, Sept. 13, 25 days earlier; Catbird, Sept. 18, 7 days earlier; Wood Pewee, Sept. 18, 10 days earlier; Redstart, Sept. 20, 8 days earlier; Indigo Bird, Sept. 22, 13 days earlier; Mourning Dove, Sept. 23, 17 days earlier; Sapsucker, Oct. 3, 8 days earlier; Cowbird, Oct. 11, 5 days earlier; Yellow Palm Warbler, Oct. 12, 2 days earlier; Hermit Thrush, Oct. 13, 19 days earlier; Field Sparrow, Oct. 14, 11 days earlier; White-throated Sparrow, Oct. 25, 2 days earlier; Robin, Oct. 27, 9 days earlier; Meadowlark, Oct. 15, 21 days earlier; Myrtle Warbler, Oct. 27, 10 days earlier; Kingfisher, Oct. 27, 18 days earlier; Red-winged Blackbird, Nov. 1, 16 days earlier; Killdeer, Oct. 21, 4 days earlier.

A few species migrated later in 1912 than in 1913: Chimney Swift, on Sept. 29, 5 days later; Red-breasted Nuthatch, on Oct. 24, 4 days later; Bluebird, on Nov. 8, 9 days later; Song Sparrow, on Dec. 15, 8 days later.

Migrants seen in 1913 and not in 1912 were: Grasshopper Sparrow, White-crowned Sparrow, Swamp Sparrow, Savanna Sparrow, Lark Sparrow, Fox Sparrow, Bay-breasted Warbler, Black-throated Blue Warbler, Magnolia Warbler, Tennessee Warbler, Nashville Warbler, Chestnut-sided Warbler, Prairie Warbler, Connecticut Warbler, Sycamore Warbler, Overbird, Long-billed Marsh Wren, Blue-headed Vireo, Night-hawk, Water Thrush, Brown Creeper, Maryland Yellowthroat, Black-billed Cuckoo, Virginia Rail, Lesser Yellowlegs, Blue Gray Gnatcatcher, Wood Thrush, Montana Junco; total, 28 species.

Migrants seen in 1912 and not in 1913 were: Loggerhead shrike, Orchard Oriole, Wilson Warbler, Herring Gull, Vesper Sparrow, Cardinal, Northern Shrike; total, 7 species.

## AUGUST.

3 Yellow Warbler	29 Black and White Warbler arrived
5 Grasshopper Sparrow	29 Redstart arrived
14 Alder Flycatcher	30 Hermit Thrush arrived
15 Whip-poor-will	30 Black-throated Green Warbler arrived
16 Loom	30 Bay-breasted Warbler arrived
25 Least Flycatcher arrived	31 Barn Swallow
25 Purple Martin	31 Greater Yellowlegs.
28 Long-billed Marsh Wren	
28 Overbird arrived	

## SEPTEMBER.

2 Black-throated Blue Warbler arrived	20 Hummingbird
3 Red-eyed Vireo	20 Red-breasted Nuthatch
4 Baltimore Oriole	20 Ruby-crowned Kinglet arrived
4 Magnolia Warbler arrived	20 Prairie Warbler
4 Snowbird arrived	23 Chestnut-sided Warbler
5 Swamp Sparrow	23 Sycamore Warbler
5 Tennessee Warbler arrived	23 Tennessee Warbler
5 Nashville Warbler arrived	24 Chimney Swift
6 Kingbird	24 Yellow-billed Cuckoo
7 Blue-headed Vireo	24 Lesser Yellowlegs.
8 Nighthawk	24 Lark Sparrow arrived
9 Connecticut Warbler arrived	25 Catbird
10 Nashville Warbler	25 Bay-breasted Warbler
11 Prairie Warbler arrived	26 Overbird
11 Cedarbird	26 Least Flycatcher
11 Pine Warbler arrived.	26 Virginia Rail
12 Crested Flycatcher	26 Blue Gray Gnatcatcher
12 Water Thrush arrived	27 Golden-crowned Kinglet arrived.
13 Brown Creeper arrived	27 Myrtle Warbler arrived.
13 Maryland Yellowthroat	27 Black and White Warbler
14 Black-billed Cuckoo	27 Water Thrush
15 Warbling Vireo	28 Wood Pewee
15 White-throated Sparrow arrived	28 Redstart
19 Sapsucker arrived	28 Savanna Sparrow arrived
19 Sparrow Hawk	30 Wood Thrush

## OCTOBER.

5 Indigo Bird	15 Montana Junco arrived
6 Chickadee arrived	16 Cowbird
6 Hairy Woodpecker arrived	16 Pine Warbler
7 Magnolia Warbler	16 White-crowned Sparrow
9 Brown Thrasher	16 Lark Sparrow
9 Black-throated Blue Warbler	17 Chipping Sparrow
10 Mourning Dove	17 Montana Junco
11 Flicker	19 Ruby-crowned Kinglet
11 Black-throated Green Warbler	20 Red-shouldered Hawk
11 Sapsucker	20 Canada Geese
12 Connecticut Warbler	21 Tree Sparrow
13 Phoebe	25 Bronzed Grackle
14 House Wren	27 Field Sparrow
14 Yellow Palm Warbler	27 White-throated Sparrow
15 Savanna Sparrow	31 Bluebird
	31 Killdeer

## NOVEMBER.

1 Hermit Thrush	6 Hairy Woodpecker
1 Fox Sparrow	6 Myrtle Warbler
2 Towhee	12 Kill Diver
5 Robin	14 Kingfisher
5 Meadowlark	15 Red-winged Blackbird
6 Golden-crowned Kinglet	

## DECEMBER.

1 Meadowlark reappeared	11 Bronzed Grackle reappeared
2 Meadowlark departed	14 Goldfinch
7 Song Sparrow	16 Brown Creeper

Total number of migrants seen, 85.